

Claims:

1. A method for forming a base of a heat sink on which heat dissipating fins are attached, the base comprising a body made of a first metal having a first heat conductivity and a core made of a second metal having a second heat conductivity higher than the first heat conductivity, the method comprising the following steps:

- a) defining an opening in the body which has a shape corresponding to a shape of the core and a size slightly less than a size of the core;
- b) pressing the core into the opening of the body;
- c) stamping the core to cause it to plastically deform in radial directions and thereby become firmly combined with the body.

2. The method as claimed in claim 1, further comprising the following step after step c): d) removing any burring of the core flowing out from the opening such that surfaces of the core and the body are coplanarly smooth.

3. The method as claimed in claim 2, wherein the opening is circular and the core is circular, and a diameter of the opening is slightly less than a diameter of the core.

4. The method as claimed in claim 3, wherein the opening is a through opening and is defined in a center of the body.

5. The method as claimed in claim 1, wherein the body is made of aluminum and the core is made of copper.

6. A method for forming a heat sink for dissipating heat generated by an electronic device, the method comprising the following steps:

- a) preparing a base, the preparing comprising the steps of:
 - i) providing a body made of a first metal having a first heat conductivity, said body being formed with an opening therein;
 - ii) providing a core made of a second metal having a second heat conductivity higher than the first heat conductivity, said core having

a shape corresponding to a shape of the opening and a size slightly larger than a size of the opening, said core having a bottom face adapted for thermally contacting the electronic device;

iii) pressing the core into the opening; and

iv) stamping the core to cause it to plastically deform in radial directions, whereby the core and the body are securely connected together; and

b) Preparing heat dissipating fins and attaching the fins to a top surface of the base.

7. The method as claimed in claim 6, further comprising the following step after step iv): v) removing any burring of the core flowing out from the opening such that surfaces of the core and the body are coplanarly smooth.

8. The method as claimed in claim 6, wherein the opening is circular and the core is circular, and a diameter of the opening is slightly less than a diameter of the core.

9. The method as claimed in claim 8, wherein the opening is a through opening and is defined in a center of the body.

10. The method as claimed in claim 6, wherein the body is made of aluminum and the core is made of copper.